

**TOCSIN 604 DATA SHEET****TOCSIN 604 FOUR CHANNEL  
HAZARDOUS GAS MONITOR**

Designed to provide a cost effective solution for gas monitoring applications requiring up to four monitor points the Tocsin 604 is the latest development from IGD to join the established Tocsin monitor range.

The Tocsin 604 uses the latest surface mount microprocessor technology for maximum reliability. The system boasts a range of interfaces to external data collection systems normally only associated with much larger installations.

The Tocsin 604 is designed to interface to the full range of IGD gas sensors giving maximum flexibility.

**SPECIFICATION**

Power Supply	24VDC, 50W
	85V - 264VAC, 47-63Hz 70W
Temperature	0 - 50°C
Humidity	5 - 95% RH Non Condensing
Accuracy	+/- 0.5% of FSD
Resolution	1% of FSD
Outputs	4-20mA (Max. 900 Ohms)
	Alarm 1, Alarm 2, Fault SPCO Relays
	7A @ 240VAC Resistive
	Audible Alarm- 60db @ 100mm
	RS485 - Multidrop Addressable
Inputs	Pellistor, 4-20mA
Display	3 digit RED LED, 14mm height
Response Time	T90 = 10s
Size	W=373 x L=252 x H=65mm
Weight	4.2 Kg

**FEATURES**

- Software Controlled
- Software upgradable via serial port
- Software fault detection and recovery
- Digital transducer Filter (to remove noise)
- Alarms Include spike / noise rejection algorithm
- Under voltage detection and recovery
- One Man Calibration
- Full Pellistor fault detection - Compensator/Detector short/open.
- No Manual Potentiometers - All calibrations and set-up stored digitally
- Set-up and Calibrations password protected
- Programmable Pellistor operating current
- Programmable transducer range
- Diagnostic Information
- Fully controllable via serial port - Gas values, Diagnostics, Calibrations, Set-up
- Configurable alarms - Rising / Falling / Latching / Non-Latching
- Simple one button operation

**WITHUS**

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Oliver IGD Limited reserve the right to amend specifications without prior notice

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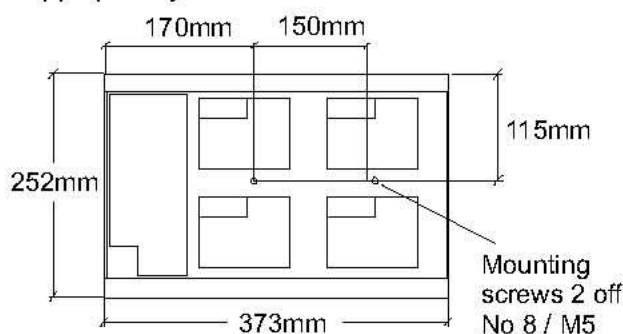
## TOCSIN 604 DATA SHEET



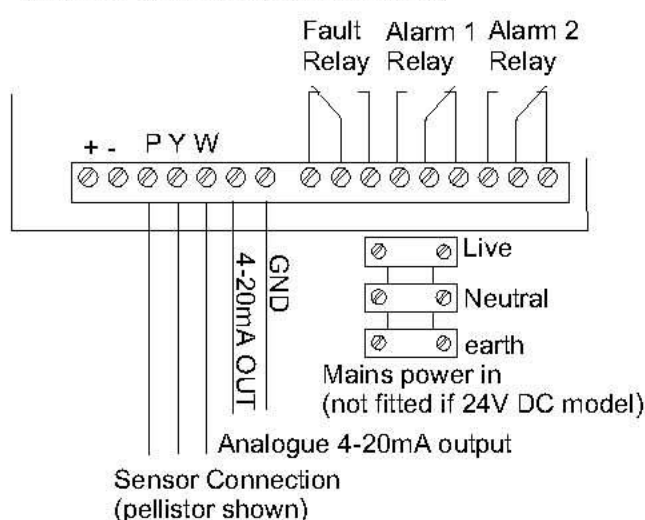
24V DC  
Power Connection.

Power input use 1.5mm sq minimum cable.

Note that a 24V DC system is shown. Mains powered 110/230 V AC systems use the same style input terminals and will be labelled appropriately.



### Channel Terminal Rail Connections.



## TOCSIN 604 INSTALLATION INSTRUCTIONS

The following information is provided to enable safe installation and operation of the Tocsin 604 system.

This control unit can be fitted with either a three wire flammable gas sensor based on pellistor technology or two or three wire 4-20mA toxic gas sensors based on electrochemical technology.

It is vitally important for correct and safe operation that appropriate cable types and sizes are used and all earth bonding points observed. Failure to follow these instructions may result in a system which may be dangerous or fail to operate correctly.

### NOTE.

It is important to calibrate the complete system after installation. Failure to do so may result in incorrect operation.

It is imperative to use cabling which suits the environment in which the T604 and its sensor is to be used. The following is intended as a guide.

For flammable sensors do not exceed 50M for 1.5mm SQ cable or 100M for 2.5mm SQ cables.

For toxic T101 series sensors do not exceed 500M for 1.5mm SQ cables.  
Use

Pirelli LSX type cable for office/light commercial un-zoned installations

Steel Wire Armoured cable for medium/heavy industrial un-zoned installations

Mineral Insulated Pyro cable for all hazardous area zoned installations.

Note in all cases the T604 must be installed outside of any hazardous area and must be supplied via a fused spur.

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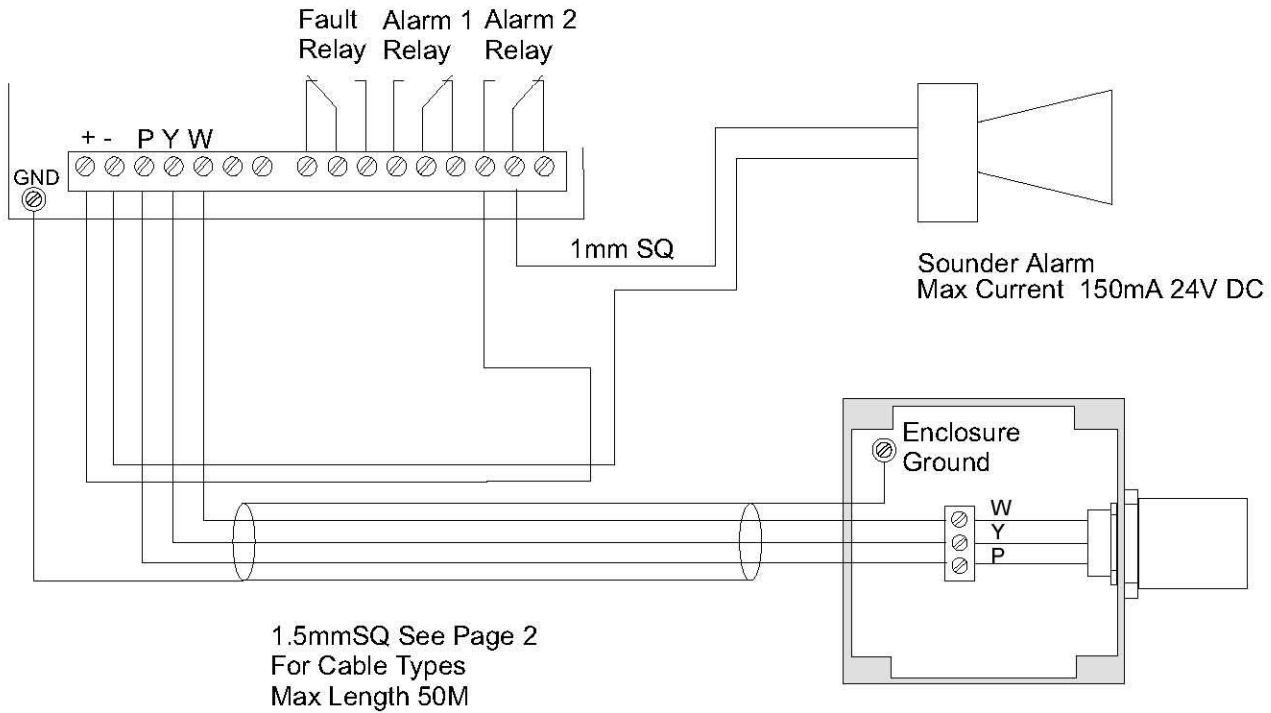
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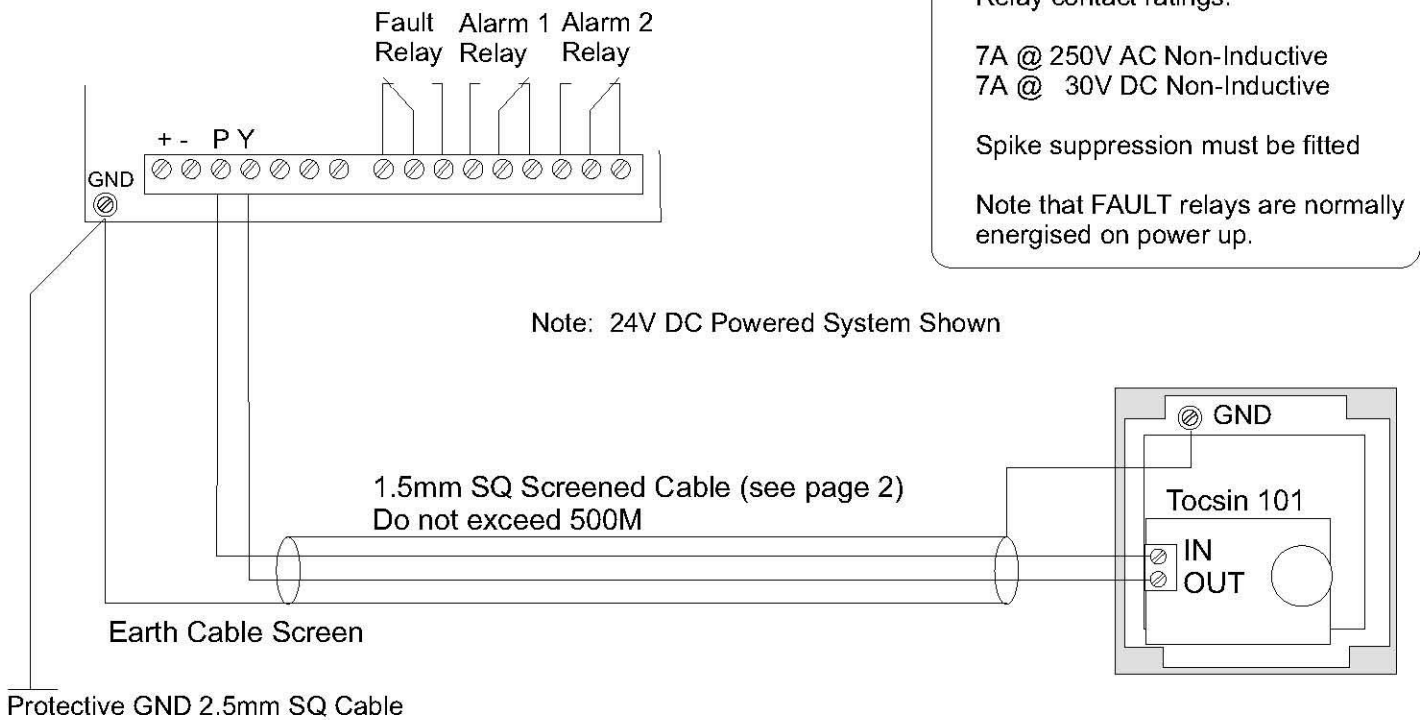
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### Option 1 MK3 Pellistor Connected To 604 Series Control Card



### Option 2 Tocsin 101 Connected To 601 Series Control Card



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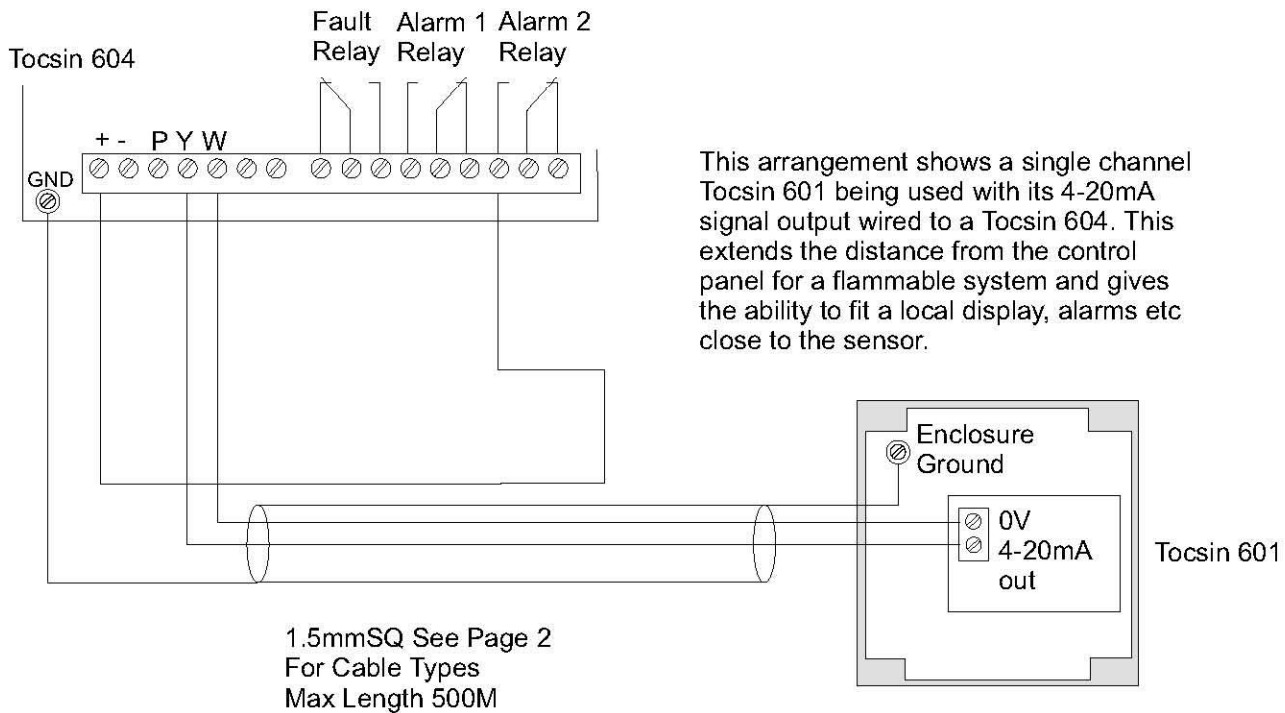
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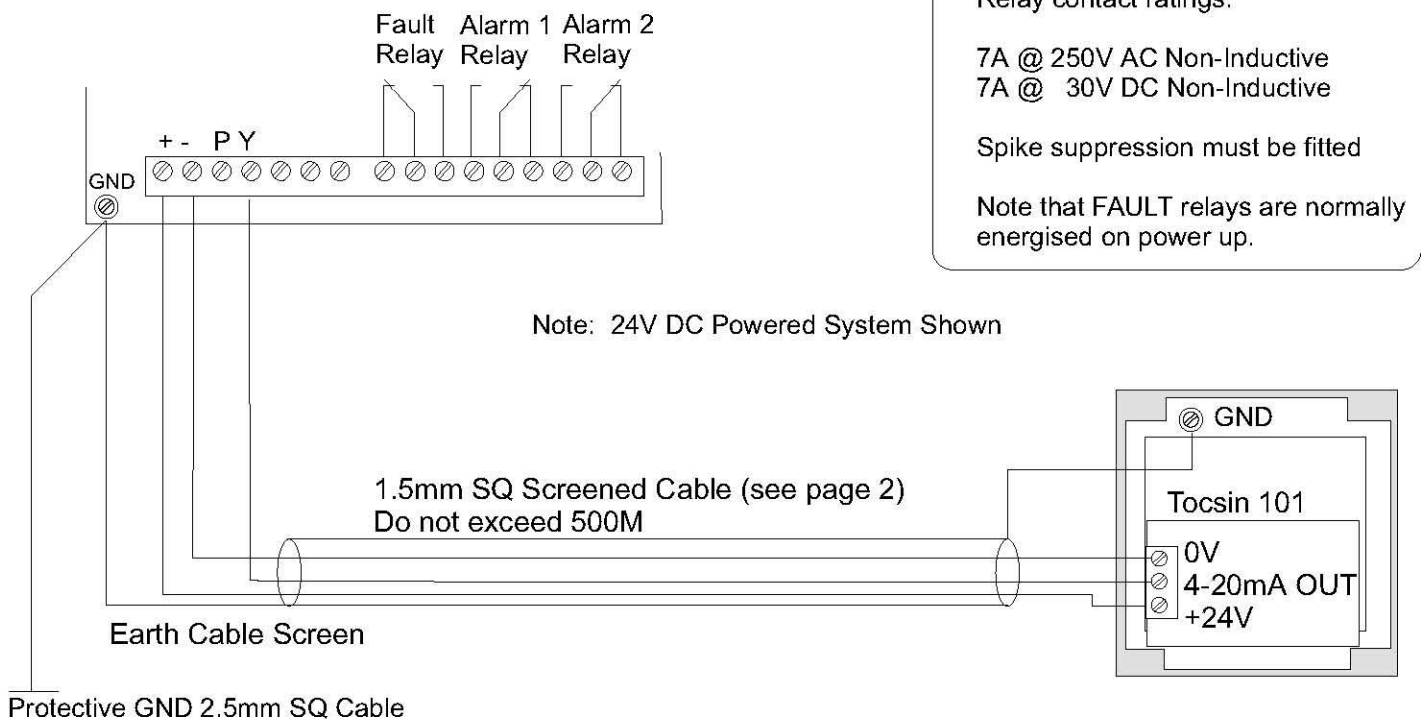


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### Option 3 MK3 Pellistor Connected To 604 Series Control Card Via Tocsin 601



### Option 4 Tocsin 101 Freon Connected To 604 Series Control Card



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